

PVRC January 2003 Newsletter

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PVRC NEWSLETTER - JANUARY 2003

PVRC HOLIDAY CELEBRATION IN VIENNA VA, December 9, 2002

Attending: AD3F, K1QDV, K2PLF, K2UOP, K3DI and N3FZB, K3IXD, K3KY, K3MM and wife and daughter, K3RUQ, K3WA, K3ZO, K4JA, K4VV and wife, K4YT, K4ZA, K4ZW, K8OQL, KC3VO, KE3Q, KE4PSV, KT4W, N1WR, N3AM, N3JT, N3OC, N3PZV, N3RR, N3RR and wife, N4MM, N4RV, N4ZR, N6WHB, W2BZR, W2GG, W2YE, W3AZ, W3BP, W3EKT, W3GG, W3HVQ and wife, W3IDT, W3LL, W3LPL and wife, W3PAW, W3UJ, W3YOZ, W3ZZ, W4LIP, W4MYA, W8JVP, W8ZA, WR3L, and WR3Z

After cocktails and dinner, outgoing president (and incoming vice president) N3OC presided over the introduction of the current Club officers (K4VV vice president, WR3L treasurer, W2GG secretary), the announcement of next year's officers, and the annual presentation of Club awards.

PVRC lapel pins were presented to last year's ARRL Sweepstakes participants who qualified for the PVRC Live Wire award (36 plus hours in the chair for both modes). Certificates were mailed some months ago.

Recipients of the 48-hour (Diamond) certificate with lapel pin: AA4NC, K3FT, K3MM, K4MA, KD4D, W2GG, W4NF, K3TM.

Recipients of the 36 to 47-hour award (Platinum, certificate with lapel pin): N2NFG, K2PLF, W3PP, W3UJ, WJ9B, W4MYA, W3CB, W3SY, N3HUV.

Many 5M plaques were presented along with endorsements for those

members reaching the 25 million and 10 million point levels. The large number of plaques being mailed to the PVRC-NC region was noted. Congratulations to all to have participated in this Club program. The awards were:

25M - AA4NC, W2GG, W3LPL

10M - K2PLF, W4TNX, KD4D, K3DI, N4ZR, K1RA, K3DNE, K8ISK, N3AM, W3HVQ, W4HJ, N8II, K7SV, W4YE, W4NF, W8ZA, W4XP, WR3L

5M - K4JA, W4RX, N3HBX, K9GY, ND3A, WJ9B, K7GM, WW4M, NX9T, KI7WX, N4MM, W3AZ, W3EKT, WD3A, K4QPL, KV3R, W4ZV, N4YDU, K3IXD, K3RV, K9JY, WA4JUK

ARRL gavels signifying the Club's top position in the 1999 September VHF QSO Party and the 2000 ARRL 10 Meter Contest were presented with scores as follows:

2000 Sept VHF W4RX 172,172
2000 10 M W2GG 2,430,912

The Club has recently done very well in the CQ WPX Contest and has received plaques for the top position in the club competition for the 1998 WPX and 1999 WPX. The '98 plaque was presented to KE3Q and the '99 plaque to K3MM for the combined high Club scores of:

1998 WPX KE3Q 11,773,443
1999 WPX K3MM 13,230,410

Ken Claerbout, K4ZW, made a superb slide presentation of his combined trips to Mongolia and his visit with JT1CO. A special note of thanks to KC3VO for his audiovisual support.

REPORTING CLAIMED SCORES FOR PVRC 5M AWARD CREDIT

To participate in the 5M Award, it is necessary for each participant to report his claimed score to Bob Dannals, W2GG. The preferred route is by email, or by posting to the PVRC email reflector (see notes on joining the reflector on the PVRC reference page or web site). Scores reported on the packetcluster or on the 3830 Archives (www.contesting.com) are not guaranteed to be found, especially on the latter due to the large volume of scores reported following each contest. All scores sent directly to the email

address are acknowledged by return email. Scores posted on the PVRC reflector are all read but not acknowledged individually by return email. Check the score summaries (printed in the Newsletter or posted frequently to the PVRC reflector). If your score does not appear, let Bob know. It is not possible to read the final contest results printed months later in a magazine and seek out participants' scores. You are your own advocate in this regard, so please remember to send them to Bob before the contest deadline.

NORTHWEST MEETING NOTES FOR NOV 02 by Ed Steeble K3IXD, Chairman

The NW region met at City Buffet in Frederick, MD on 19 November 2002. In attendance were: N4MM, K8OQL, W3LL, K3WC, NE3H, AD3F, N3VOP, K2PLF, W3KHZ, N3FX, W2YE, K3ZO, W3ZZ, N3HBX, W8ZA, K3IXD, and W3EKT.

The business part of the meeting:

1) We voted on the applications of: K1RH, Rob Heath; K3ZE, Al Bisasky; NX3K, Ken Skrivseth; KB3DVC, Ed Rummel; and N3TZA, Joe Craven. Welcome to PVRC and we look forward to your contributions in the club competition contests.

2) The attendees were reminded about the annual PVRC Holiday Dinner on December 9, 2002. RSVP to K4VV via email.

3) N4MM said that the WRC03 conference has begun and of interest to this club was the push to get world wide exclusive usage of the 40m band. He reported that the DXCC desk is now processing submissions dated September 25th.

Around the table:

N4MM, John operated in both SS CW and SS SSB. K8OQL, Jerry operated CQWW SSB at W8ZA's. W3LL, Bud operated SS and CQWW.

K3WC, Dusty reported that his 6m rig and 6m amp are still in the box. He has an Omni 6+ for sale.

NE3H, Joe is moving his packet node because it is too time consuming to get to the current location. In CQWW SSB his amp quit.

AD3F, Gene is now the owner of a slightly used ICOM 746PRO and

really likes the DSP capabilities. And having 6m and 2m enabled him to enter the September VHF contest; however the 6m antenna was his 40m antenna and the 2m antenna was a loop. He is gathering information about building a 6m beam. That sparked a discussion on the pros and cons of using a gamma match on VHF antennas. He was talking about building the NBS, 3 el, 6m beam.

W3EKT, Ed said his NBS, 3 el, 6m beam uses a gamma match and he used it for successfully roving, and from the home QTH he has 99 countries confirmed. He is still waiting for that 100th card! Lately he has been chasing band countries. (PS - On Saturday, the 100th 6m DX card arrived in W3EKT's mailbox.)

N3VOP, Mike said he took his station to the Carroll County Radio Club hamfest for a club competition entry in the CQWW SSB contest. He did some part time operating at K3PZN, the Carroll County Radio Club's station, for CQWW SSB. In CQWW SSB, from home, he worked 74 sections with a long wire in the trees.

K2PLF, Marty announced that Yaesu quickly repaired his power supply. He is very pleased with their repair service. He operated CQWW SSB from home and thinks that being packet assisted got him 75 extra multipliers. In SS SSB, he doesn't think that "U" class is worth it.

W3KHZ, Art reported he now has worked four countries and four states on 6m. He helped operate K3PZN in CQWW.

K3FX, Tony set out to increase his SS CW QSOs this year and succeeded! He was on for SS SSB.

W2YE, Dick has an Alpha 91B which replaces his Heathkit SB1000. His ICOM 756 is at the factory so he used his ICOM 735 in SS SSB.

K3ZO, Fred operated CQWW SSB and said 10m is still the band. His advise is to get on 10m in the early morning and search and pounce starting at the low end and going all the way up (maybe to 28.900 or more). In SS CW he had 50 more QSOs than last year. He will be on for CQWW CW.

W3ZZ, Gene is recovering from successful hip surgery. For CQWW SSB he operated 10, 15, and 20m. His 40m and 80m antennas weren't working, but the 80m antenna has since been fixed. He did a part time effort in SS SSB to help the club's overall score. Gene said

this year's Leonid meteor shower wasn't as good as last year's (and he reported 30 or 31 QSOs, more than anyone else at the meeting). He asks for reports for his QST World Above 50 MHz column.

N3HBX, John entered CQWW SSB in the single band, 15m, category. KD4D did SS CW and SS SSB from John's QTH and had a better score this year which they attribute to having SO2R capability.

W8ZA, Bob again hosted a multi-multi effort from his QTH with K3DNE, K8OQL, K3IXD, WD3A, and N8II plus himself as the operators. He was pleased with the new phased 80m wire verticals. He is now studying the NCJ article about feeding phased verticals. The 10m low pass filter burned up during a 200+ run. For SS CW and SSB he did a casual effort.

K3IXD, Ed has returned his MFJ 434 voice keyer to the factory for repairs. Others mentioned that, they too, had problems with their MFJ voice keyers. He was going to enter SS SSB but due to operator errors (which are too embarrassing to document) and RF into the computer, he quit after 19 QSOs. With advice from W4MYA and some on site instructions from WD3A, he has the W3SO computers networked; and identical software on all four of them.

Discussions:

There were excellent discussions on how to find a frequency to call CQ. In summary, on 10m you may end up very high in the band, but that is OK; and be on 10m when it opens. If you have a good station, be there hour early. Start low in the band and tune up working everyone, when you come to a clear spot, stop and call QRZ; don't waste time just tuning, looking for a clear spot. It helps to spot all the PVRC members you hear, even in the contests like ARRL DX. Those spots are displayed world-wide.

Regarding SS, there was a comment that a new, general strategy may be needed. The guidance used to be search and pounce for the first hour or two, then start calling CQ. But today, there doesn't seem to be as many stations on and those CQing in the first hour are the serious stations that will be there through out the contest. Therefore begin by CQing and use the second radio/vfo to search.

There was a short discussion on how to get new members and also increased participation in club competition contests. No

conclusions except that no one present wants to spear head an effort.

NORTHWEST MEETING NOTES FOR DEC 02 By Ed Steeble, K3IXD, chairman

The NW region met at City Buffet in Frederick, MD on 17 December 2002. In attendance were: K3IXD, W8ZA, K8OQL, N4MM, K2UOP, W3EKT, N3VOP, AD3F, K3DNE, WD3A, W3LPL, K4FTO, W3KHZ, K2PLF, N3OK, N3HBX, W0YR and N8II.

The business part of the meeting:

- 1) We voted on the applications of K4FTO, Art. Welcome to PVRC and we look forward to your contributions in the club competition contests.
- 2) N4MM reported that the DXCC desk is now processing submissions dated September 27th.
- 3) N4MM said the January QST is out and ARRL is looking for feed back on the new style, contest write up. The contest details are on the web.
- 4) There were inquiries about the status of the PVRC shirts, etc., orders. No one present knew the answer. (K3IXD will try to remember to call K3SKE before the next meeting and get an update.)

Around the table:

K3IXD, Ed said he got his repaired MFJ 434 voice keyer back from the factory just in time to give it a work out in the 10m contest. He also operated for about an hour in the PSK-31 Death Match Contest. In networking the W3SO computers, he found out the later releases of CT are able to direct a gab messages to a given position (end the message with CNTL-Enter instead of Enter).

N8II, Jeff has been in a lot of contests this season, all low power except for the 160m contest.

W0YR, Mike was glad to be in town on a third Tuesday so he could attend another NW meeting. He visited ON4UN and showed pictures of the 3 el 80m beam installed there. Mike was at WRTC and said everyone should try to attend one of the events sometime.

N3HBX, John lost four antennas in the ice storm.

N3OK, Scott is doing more contesting now that he has joined PVRC. He has his wire antennas on pulleys and uses paint cans, filled with sand, as counter weights. No problems with the ice.

K2PLF, Marty said he returned his MFJ 434 voice keyer to the store for a replacement, then had to send that one back for another. He had sent the second replacement to MFJ for repairs. He was on for the 160m and 10m contests. He dropped his wire antennas and as a result didn't have any icing problems. He said that N4RV is looking for operators for the ARRL DX CW and SSB contests.

W3KHZ, Art reported that family illnesses have limited his operating time. His 2m and 6m beams are still on the ground. He doesn't think the weather is bad enough yet to put up a antennas.

K4FTO, Art didn't have any problems with the ice since his antennas are in the attic. He said a neighbor is having some 2m cable interference problems. The cable company came out and after the checks said all was OK. Art was advised by several present to enlist the aid of the FCC.

W3LPL, Frank said K4ZA operated the 10m contest from his QTH. He has been remodeling his basement ham shack.

K3DNE, Ed operated 10m and SS contests from home. He ran high power in the 10m contest this year and said it was a lot easier to make QSOs. He has a new 2m amp. Ed said he uses Writelog's interface to the computer sound card for voice keying.

WD3A, Tom did CQWW CW from home. He said Writelog is able to copy 40 wpm CW under weak signal conditions. He uses as 200MHz computer. He helped K3IXD network the W3SO computers.

AD3F, Gene operated in the 160m contest. His antennas did survive the ice storm. He is building a 6m beam with some advice from W3EKT.

N3VOP, Mike lengthened his long wire antenna from 75 feet to 125 feet and used it in the 10m contest. He is forming a team to operate the Carroll County radio Club station, K3PZN, in the January VHF contest.

W3EKT, Ed had his 6m cards checked by N4MM during dinner and achieved 6mDXCC. Congratulations, Ed! His antennas survived the ice storm. He's been traveling and missed the 10m contest.

K2UOP, Tom survived the ice storm but the elements on the beam were really drooping. He has been in all the contests this year. He reports his QSOs are up since he has been doing more CQing and less S&P. He, too, reported a problem with his MFJ voice keyer. He started out with a 432 and finally MFJ replaced it with a 434. He raised his beverage off the ground and laid it across the top of the orchard trees (about 5 feet off the ground). It is hearing better on 160m and is now good on 80m too.

N4MM, John survived the ice storm. He was on for the 10m contest.

K8OQL, Jerry hasn't been able to operate a contest since CQWW SSB due to other obligations.

W8ZA, Bob was first snowed in then later iced in. The ice storm caused an element on a 15m beam to bend where it drooped and rested on a guy wire. One of his 80m slopers broke. And his beverages was sagging until the trees straightened back up. He operated in the 160m contest, but illness reduced his operating time in the 10m contest. He had troubles with the ARRL robot accepting his 10m log (using CT 9.71).

Discussions:

W0YR, Mike wondered why PVRC doesn't have RTTY contests count towards the 5M award? N4MM said it might be easier to get PVRC to do that if we got ARRL to make RTTY a club competition contest. Then it was mentioned that the IARU contest should be considered towards counting towards the 5M award. Suggestion made to write to the League and to talk to the PVRC Officers and Board members.

AD3F, Gene talked about his quest to slave the VFOs in his ICOM 746PRO. This is to over come the problem that the ICOM 746 and ICOM 746PRO do not have a separate receiver antenna input (i.e. for a beverage). Searching the web and in talking with others he hasn't gotten a solution yet. However, he did discover in reading the QST review that a quick offset can be programmed. He is hoping that an offset of 0 (zero) will work. Some others at the meeting will check to see if that option exists on the ICOM 746 too. When he finds a solution, he will post it to the PVRC e-mail reflector.

Next meeting:

The next meeting is January 21st, and it is at the City Buffet, 1306 W. Patrick Street, Frederick, MD. (301) 682-6066. It is in a small shopping center. From W. Patrick Street, turn up McCain Dr. (the Mountain View Diner is on the corner), then turn right into the shopping center, then turn left and search for a parking place. The City Buffet is tucked back in the left corner of the shopping center behind Mountain View Diner; you can't see it from the street.

The NW Region meetings are on the third Tuesday of the month. Most arrive about 6PM for dinner and informal discussions; the meeting begins at 7:00 PM.

PVRCNC MEETING MINUTES FOR OCTOBER 2002 by Guy Olinger, K2AV

PVRCNC met at Ryan's Crossroads Plaza in Cary on October 3rd. Attending, in no particular order: Bob N2NFG, Brian K3KO, Jeff NX9T, Will WJ9B, Jim K4QPL, Nate N4YDU, Bert N4CW, Alan KO7X, Guy K2AV, Wes K4WES, Jim WW4M. Meeting called to order at the usual time with the usual results (chair gets the razz).

Around the Horn:

N4YDU in the IARU, IOTA with KO4PY. Set up out on the banks, reported that there were clouds of mosquitoes and conditions sucked, but failed to mention whether the two phenomena were related, which started another one of those interminable cause and effect discussions at the south end of the table.

Also reported some kind of zoning problem starting up for hams in Franklin County.

N4CW will be down east (that's up in Maine for rednecks) for a month. Main exercise had something to do with spackle. Whether that was for walls (for a whole month?) or something unprintable in these pages not determined. Subsequent reference to VHF test non-sequitur.

KO7X was on in the sprint, further demonstrating the effect of southern weather.

N2NFG had various tower, antenna and horticultural woes, interrelated to a surprising degree. Does plan an antenna party,

but assured us that the Garden Club format will not be used for the morning.

K3KO took down his 10m antenna and sold it to N4YDU. Nate was immediately warned to disinfect it for amplifier cooties before taking it home by the south end of the table, who interrupted their statistical consult on mosquitoes and band conditions for the purpose.

Brian also told a fetching story about a mockingbird hopping up the rungs of his tower. No doubt mocking the hazer.

NX9T reported that he needs a beverage, but would have to run it downhill, requesting commentary on efficacy of same. South end of table abandoned mosquitoes and band conditions for new discussion whether downhill polarization is vertical or just downhill.

WJ9B reported on WAE and first encounter with QTC's. Comment was that he appeared sane and in remarkably good health, considering.

K4QPL did the WAE and Sprint and reported the results of homebrew SO2R box version 11.2c.

K4WES did the WW RTTY. No fires, blown traps, amps or any such. Are you sure it was on, Wes?

WW4M wants to watch (not operate) a RTTY contest, with the intention of getting his feet wet. South end of table reminded him that oil on the shoes went out with heavy metal, it's all electronic now. North end got off on tangent about exactly how one WATCHES an RTTY test. Unwittingly resurrected the TR-vs.-WriteLog-ish flap on which is the best RTTY program.

N4YDU asked people to watch out for NR3X which might be him. South end of table interrupted their polarization debate to strongly advise Nate NOT to use this call in the SS. Since the south end of table had been effectively adjourned since mosquitoes and band conditions, north end adjourned to miscellaneous BS and scientific discussions, whereupon all polar differentiation ceased.

PVRC/NC MEETING 12/12/02 by Pete Soper, AD4L

PVRC/NC chapter meeting Thursday December 12 at Raleigh Six Forks North Applebees Attendees: K2AV, K3KO, K4QPL, KO4PY, N2NFG,

N3NPQ, N4TL, AD4L Regrets: WW4M, W2CS, W9JB, KO7X, K4TMC, NX9T, and N4CW. (This was a "small meeting beats no meeting" makeup for the December 5 regular date preempted by the ice storm and is mostly a reconnaissance report as we look for alternatives to Ryans for some future meetings)

I arrived in time to catch the tail end (last 45 minutes) of a heated technical discussion between K2AV and K3KO about where RF current flows when the coax is run inside a tower leg or some such. I was too involved with the waiter trying to get a decent beer to hear the conclusion about where the current really flows but perhaps Guy and Brian will be submitting an article to "QST" to get this down for posterity.

About the beer. After going around the houses I established that the beer selection at this Applebees looks like this:

- Killians

There were two or three industrial and light industrial solvents for sale too but I won't mention them. The beer score is thus 3 on a 100 scale. Still, the Killians was better than a pine cone in the eye and of course all the friendly faces made this a minor point.

They had a superb mixed appetizer plate with yummy ribs, breaded cheese sticks, "cheese inside pastry", and chips and dip with hot peppers. My shrimp platter was OK and overall I rate the place 70 for food.

The room was about the right size for a well attended meeting of 18-20. This evening it wasn't exclusive but there was just one other patron with us the whole time (from her expression she was perfectly mystified by our conversations!) There was no smoking and no noticeable smoke in the room.

The noise level coming in from the rest of the restaurant was just on the verge of being a problem but the noise going the other way with the usual 20 of us for something like a Carnac description of the N4AF exploding balun might constitute the bigger concern. I can't recall if there are doors.

No problem with separate checks. The service was satisfactory. Getting too/from the place was trivial. Traffic was heavy but moved at a decent pace. On a rainy night coming up from south

Cary it would of course be painful though.

K2AV described some of the wild wire antennas at the N4AF station and went into detail about the extensive testing Howie did, modeling exercises and lessons learned about long booms (I seem to recall the boom on the 20m yagi to Europe is 160 feet but I may have that confused with the 40m quad).

But we mostly yacked about the storm and also got the scoop on N2NFG's unfortunate house fire (Bob's having a new home built now). Lots of storm war stories, the best one being the tree that massacred K4QPL's wife's car coming down more or less where Jim had been standing a short while before and forcing him to stop and think about mortality. N3NPQ and I couldn't resist a little shop talk about the new Linux interprocess lock primitive but we kept our voices low.

Back to Carnac Reports next year, best wishes to all!

S C O R E S by Bob Dannals, W2GG

Correction, additions, etc to [\[email protected\]](#)
is missing data.

CQWW SSB Final 17-Dec-02

Call PB QSOs Zon DX Score

Single Op - Unassisted

K4ZW	C	3202	150	547	6,353,852
K3ZO	C	3136	137	486	5,547,192
NX9T	C	1860	115	382	2,563,526
WR3Z	C	1416	127	417	2,139,008
NR3X	B	1320	103	111	1,651,188
K2UOP	C	1002	115	384	1,397,699
W4ZV	C10	2022	34	157	1,106,463
N3UM	C	873	90	301	951,694
N4MM	C	762	109	319	914,805
N4CW	C	800	87	294	853,821
W4YE	C	838	78	269	816,144
K3JT	B	734	79	258	683,436
N4GU	C	607	95	257	596,992
N3HBX	C15	1273	35	130	585,750
W3LL	B	610	80	258	562,094

K3DSP	B	638	72	228	530,400
K1KO	C	577	67	231	476,502
K3WA	C	500	75	243	441,702
K4EU	B	510	94	220	426,098
N4JED	B	520	69	195	375,936
N4EL	C	500	65	199	361,416
N4MO	B15	566	33	129	258,714
KO7X	C	347	79	158	224,202
W3AZ	C	359	61	161	221,334
KE4MIL	B	351	47	163	203,490
W3CP	B	274	69	163	175,160
K4UVT	B	260	64	172	165,672
KG6AR	B	285	74	145	157,461
KR4LO	B	313	35	120	138,260
K3SWZ	B20	312	32	104	115,328
N3FX	C	216	55	116	101,232
N8II	C	200	60	121	98,283
AA4KD	B	211	60	120	94,680
K4WES	B	201	52	112	83,312
W4RIM	C	165	36	90	53,460
N4TL	C	147	44	90	52,394
W4XP	B	145	45	90	49,815
KT3D	B	141	88	38	46,875
N8CH	C	118	32	82	38,760
KC4D	C	115	37	80	36,036
W3JRY	B	100	34	81	31,510
N3FNE	B	120	28	63	28,938
W3ARS	B	###	##	##	26,160
N3OK	B	210	38	70	22,680
N3ZR	B	84	25	47	15,624
N3VOP	B	74	27	52	13,193
AI3M	B	64	15	24	6,747
W3DQ	B TS	27	24	20	3,124
N3XL	B	13	8	12	520

Single Op - Assisted

W4NF	C	2018	143	544	3,875,367
K2PLF	C	2117	135	500	3,817,620
W4RM	C	1847	119	440	2,972,203
N3AM	C	1675	119	435	2,656,984
K3LP	C	1227	127	454	1,966,685
WX3B	C	1257	90	327	1,508,706
KV3R	C	1067	112	361	1,443,596
K3KO	C	725	111	383	1,000,350
W3HVQ	C	508	113	337	616,950

N4GG C 595 76 256 551,784
W3ZZ C ### ## ### 260,352
KO4MR C10 285 32 146 144,892
K3SV C 250 78 206 118,192
K2YWE TS 38 17 36 5,459

Multi-Single

W4WS C 2208 149 574 4,306,911
W3LJ C 728 93 316 807,366
W3LRC B 310 53 152 169,330
K3PZN B 100 30 66 21,736
W3SO C 75 23 45 13,804

Multi-2

K4JA C 4893 177 717 12,171,810
K3DI C 2346 151 558 4,629,061

Multi-Multi

W3LPL C 7676 186 761 19,379,408
W4MYA C 4999 178 698 11,723,508
W8ZA C 2479 150 578 5,562,648

Dxpedition

V26B C 11367 158 596 20,994,376
Score credited to PV 6,998,125
IH9P C 18121 185 799 53,210,784
Score credited to PV 2,660,539
MM0LEO B 315 40 132 105,952

PB=Power and Band

A: QRP

B: Low Power

C: High Power

TS: Tribander + single element 160-40

BR: Band Restricted

R: Rookie

Logs: 73 Club Score: 121,288,021

Operators (non-PVRC):

KO7X at KI7WX QTH

WR3Z at N1WR QTH

IH9P: K3PN plus 19 other operators

K3DI: W3ICM K3DI (W4EE SM0WKA)

K3PZN: N3VOP AA3XZ W3ARS W3KHZ KC3VO N3YIM W3BAB (KC4WFU KB3IHC)

K4JA: K4JA W3BP K4MA K7SV KE9I (AJ9C)
NR3X: N4YDU
V26B: N3OC (et al.)
W3LJ: W3LJ W3IDT KA3UBJ (K3NCO)
W3LPL: K1HTV AI3M W2GG W3LPL KD4D K3RA K4ZA KE3Q
K1RA K1RZ K3MM NK3R (4X6FR)
W3LRC: K3HDM KB3BWR KT3D W3YD
W3SO: W3YOZ W3TEF
W4WS: WS4NC KG4NEP WB4MSG W2DZO KB6MTH (AG4RZ KG4CZU WA4IAM)
W8ZA: W8ZA K3DNE K8OQL K3IXD WD3A

ARRL SS CW Final 17-Dec-02

Call	Prc	QSOs	Sec	Score
N4AF	B	1318	79	208,244
W4MR	U	1249	80	199,840
K3MM	B	1228	79	194,024
WR3L	M	1198	80	191,680
KD4D	U	1119	80	179,040
N4ZR	B	1117	79	176,486
K3ZO	B	1125	78	175,500
WJ9B	A	1035	78	161,460
W4MYA	U	1009	80	161,440
NY3A	#	1021	79	161,318
W4NF	U	996	80	159,360
N8II	A	941	80	150,560
KO7X	U	939	80	150,240
W3EF	A	970	75	150,228
N3OC	U	866	80	138,560
N4MO	A	850	79	134,300
N6ZO	U	826	80	132,160
N3AM	B	827	79	130,666
K4TX	B	826	78	128,856
K2PLF	A	800	80	128,000
W3PP	B	784	80	125,440
K4QPL	A	803	78	125,268
N4GU	A	819	76	124,488
N3UM	B	801	77	123,354
N3SB	A	792	77	121,968
W4IDX	A	777	78	121,212
K3KO	U	725	80	116,000
K3JT	A	732	79	115,656
W4YE	A	714	80	114,240
W4ZYT	M	714	80	113,920
K4EU	A	721	79	113,918

K3TM A 730 78 113,880
N1WR A 728 78 113,568
K1HTV A 661 80 105,760
W3HVQ U 659 78 102,804
K7SV A 638 80 102,080
W3BP B 671 75 100,650
W2CS Q 635 77 97,790
NC3Y A 622 77 95,788
AI3M A 603 79 95,274
N3OC U 591 80 94,560
W3CB A 606 76 92,112
K3DI U 572 80 91,520
N3II B 581 78 90,636
K4MA B 575 77 88,550
K3WA B 550 78 85,800
K3RA A 535 80 85,600
WX3B U 539 78 84,084
K3SV U 521 80 83,360
N4CW B 520 79 82,160
W3MC # ### ## 77,400
N4GG B 483 76 73,416
WK4Y B 528 66 69,696
W4TNX U 434 80 69,440
W2CDO A 455 75 68,250
W3AZ B 425 77 65,450
K2UOP B 388 77 59,752
K4ZW B 388 75 58,200
K2AV B 401 72 57,744
W3CP A 340 75 51,000
N2NFG A 361 70 50,540
W3LJ M 335 75 50,250
N3HUV U 306 80 48,960
W3DAD A 343 71 48,706
W4RM B 386 57 44,000
W4HM A 298 70 41,720
K3CKT # ### ## 40,896
KN1DX A 272 72 39,168
W2GG A 286 68 38,896
N4MM A 215 80 34,400
K4EC B 235 65 30,550
W4RIM A 213 66 28,116
N3BF A 206 67 27,604
W4HJ A 196 70 27,440
K3DSP A 189 69 26,082
N4TL B 154 55 16,940

W4PW A 162 49 15,876
W8ZA B 130 56 14,560
N3WK A 120 52 12,480
KC9LC A 118 52 12,272
NR3X A 118 49 11,564
N3FX B 107 51 10,914
K3YDX A 104 52 10,816
W2DZO A 86 42 7,224
K1SO A 1 1 2

Logs: 84 Score: 7,535,166

Other Scores of Interest

WP3R B 1511 80 241,330 by KE3Q

Operators (non-PVRC):

KD4D at N3HBX QTH

KO7X at KI7WX QTH

KN1DX: K1SE

NR3X: N4YDU

W3LJ: W3LJ (K3NCO)

W4MR: AA4NC

W4ZYT: W4ZYT W4SD N8CH KU4EC W8RJL W4WV WD4GOY K1KO AG4JT AF4CD

WR3L: K3FT WR3Z

ARRL SS Ph FINAL 19-Dec-02

Call Prc QSOs Sec Score

W4MR B 1788 80 286,080
K3MM B 1714 79 270,812
KD4D U 1573 80 251,680
W4MYA U 1533 80 245,280
K3ZO B 1521 80 243,360
W4NF U 1509 80 241,440
K4MA U 1469 80 235,040
K2PLF U 1443 80 231,360
KM4M M 1374 80 219,840
K3PN B 1282 80 204,960
WR3L M 1243 80 198,880
K4QPL B 1190 80 190,400
N8II A 1191 79 188,020
NX9T B 1063 80 170,080
N3FX B 1022 80 163,520
K3PZN M 952 80 152,320
N4GG B 940 80 150,400

N1WR B 930 80 148,800
N3AM U 832 80 133,120
N3II U 813 80 130,080
W3PP U 784 80 125,440
K3DI M 766 80 122,560
WX3B U 706 80 112,960
W3HVQ U 681 80 108,960
K3DNE A 685 78 106,680
N6ZO B 665 80 106,240
N4GU B 651 80 104,160
W4IDX A 637 80 101,920
K1GG B 601 80 96,160
W3MC # ### ## 94,200
W3ZZ B 570 79 90,060
W3LJ M 556 80 88,960
W3LL A 550 80 88,000
N4CW B 546 80 87,360
K3RA A 448 80 71,680
NI4S A 444 80 71,040
K2UOP B 436 80 69,760
K3DSP A 417 78 65,052
W3ARS A 406 78 63,336
N4MM A 383 80 61,280
KG4NEP B 381 77 58,674
W2DZO A 351 80 56,160
N3UM B 405 69 55,890
WK4Y A 340 80 54,400
N3HUV U 335 80 53,600
W8ZA B 345 77 53,130
K3KO U 326 80 52,160
K4EU A 341 72 49,104
W3AZ A 326 74 48,248
N4JED A 280 77 43,120
K1KO A 275 76 41,800
W4YE A 273 77 42,042
KE4MIL A 251 78 39,156
W3CB # 260 74 38,480
K3SWZ Q 264 71 37,488
K3CKT # ### ## 37,000
AF4CD A ### ## 36,960
N4TL B 255 72 36,720
W3DQ A 242 75 36,300
K3SV U 226 80 36,160
W4TNX A 223 80 35,680
W4RIM # 231 77 35,574

N3OK B 248 71 35,216
K4TMC A 283 55 31,130
K1SO A 215 69 29,670
AJ3M U 201 69 27,738
W2GG A 200 69 27,600
W4HJ U 206 65 26,780
W3LRC U 168 80 26,720
W2CS B 280 46 25,760
W4SD A 200 64 25,600
W4TNX A 223 80 35,680
WA3RGH # 161 69 22,218
KT3D A 144 61 17,568
W3CP A 141 58 16,356
KC9LC A 143 54 15,444
K3YDX A 120 63 15,120
K4WES A 120 58 13,920
AA4KD A 110 54 11,880
K4HA A 104 56 11,648
W4ZYT B 100 57 11,400
WB4MSG B 104 53 11,024
WK3H A 45 34 3,060
W3DAD A 98 48 9,408

SSB Logs: 84
SSB Score: 7,320,066
CW Logs: 84
CW Score: 7,535,166
Total Logs 168
Total PV score 14,855,232

Other Scores of Interest

WP3R B 2727 80 436,320 by KE3Q
VO2WL B 1290 79 203,820 by K3TM++

Operators (non-PVRC):

K3PZN: N3VOP K1RH AK3Z N3YIM W3ARS WX3B WX3F
AA3XZ K3ZE N3SB (N3GQJ N3GQK)
K4QPL from N4AF QTH
KD4D from N3HBX QTH
KM4M: K4JA W3BP
W3LJ: W3LJ W3IDT (K3NCO)
W3LRC: K3HDM KA8YPY KB3BWR KT3D W3YD WK3X
W4MR: AA4NC
WR3L: WR3Z K3FT at WR3L QTH

CQWW CW #4 06-Jan-03

Call PB QSOs Zon DX Score

Single Op - Unassisted

K4ZW	C	2635	158	518	5,109,208
K3ZO	C	2593	144	491	4,693,285
W4RX	C	1925	142	461	3,343,092
WF3J	C	1345	127	449	2,198,016
N4ZR	C	1578	118	363	2,189,998
NR3X	B	1382	118	415	2,011,542
W3EF	B	1299	118	394	1,831,935
W4YE	C	1140	120	432	1,763,088
K2YWE	TS	1184	118	397	1,678,900
W3BP	C	1210	105	346	1,570,382
N3UM	C	1206	98	317	1,411,000
K4UVT	C	983	114	398	1,316,864
W4DF	C	###	###	###	1,290,318
N1WR	B	819	99	330	996,996
K2UOP	C	726	104	332	890,748
K4FPF	B	696	433	#	852,577
W3AZ	C	705	98	299	788,045
W4ZV	C10	1421	33	129	666,306
KT3Y	C40	1391	33	122	612,010
K1EFI	B	577	79	281	582,840
K1KO	B	558	87	266	540,090
KO7X	C	521	100	279	527,568
K3JT	B	520	78	208	414,128
N4MM	C	443	99	227	394,460
W4EI	C	###	##	###	366,210
N4MO	B15	787	33	123	354,120
K4HA	B	409	68	220	340,416
W3CP	B	379	71	214	301,530
K8OQL	C	373	84	200	280,592
K4CIA	A	337	85	220	283,955
W3GN	C	370	84	203	281,547
N8II	B10	649	23	103	238,266
K4QPL	B	300	61	172	194,322
NX9T	B	279	71	169	179,280
K4TX	C40	428	28	105	161,063
W4ZYT	B	250	55	158	150,591
N4JED	B	246	53	145	133,848
WB4MSG	C	217	##	###	109,998
K4EC	C	211	53	133	105,090
W4SD	B	206	47	133	103,500

W4HM B10 279 28 101 101,136
N4TL C 186 57 135 92,544
W3DAD C 177 58 128 90,024
WK3H B 141 59 92 55,870
W2CDO # ### 56 198 55,176
K1GG C 117 42 92 41,942
AA4KD B 110 46 86 37,752
W4IDX B40 145 20 63 31,623
K3DSP B 88 35 67 23,766
W4RIM C 80 30 61 20,020
K3SWZ A10 100 21 51 19,872
KE3Q B 69 29 51 14,240
K4NYS B 61 25 48 12,556
W3CB B 72 29 39 8,364
K4WES B 29 21 29 3,850

Single Op - Assisted

W3GG C 1585 130 483 2,780,568
N3AM C 1391 139 498 2,520,609
K3KO C 1212 134 505 2,205,828
W4RM C 871 93 333 1,060,314
K3WA C 502 93 340 596,241
K3SV C 502 98 289 534,060
N4GG C 416 94 277 428,134
W3ZZ C 475 85 221 406,062
W3HVQ C 382 97 248 360,525
W8ZA C 354 65 207 274,720
W3FG B 207 55 135 104,880
N3ZR # 95 47 55 27,846

Multi-Single

W3LJ C 747 107 354 956,575

Multi-2

K4JA C 5856 182 728 15,221,570
N4RV C 3256 162 611 7,198,176
K3DI C 1285 138 508 2,316,556

Multi-Multi

W3LPL C 7455 190 761 19,507,863
NY4A C 6250 180 681 15,299,970
W4MYA C 4278 182 695 10,403,851
AK3Z C 1549 129 436 2,388,255

Dxpedition

VO2WL C 2199 101 314 1,196,445
1/3 points 398,815
VK4UH B 260 45 88 100,282

PB: Power and band

A: QRP

B: Low Power

C: High Power

R: Rookie

TS: Tribander + single element 160-40

BR: Band Restricted

CW Logs: 75 Score: 126,958,159

SSB Logs: 73 Score: 121,288,021

Total Logs: 148 Total: 248,246,180

Operators (non-PVRC):

KO7X at KI7WX QTH

AK3Z: AK3Z WX3B K3LP N3SB NY3A (at WX3B QTH)

K3DI: K3DI (W4EE)

K4JA: K4JA K4EU K4MA K7SV K9GY KE9I

N4RV: N4RV K2PLF WR3Z K4VV

NR3X: N4YDU

VO2WL: K3TM plus 2 non-PVRC

W3LJ: W3LJ (K3NCO)

W4MYA: K4GAU W4DR W4HJ W4MYA W4TNX WK4Y NW4V

ARRL 160 CW #5 06-Jan-03

Call QSOs Sec DX Score

Single Op High Power:

W4MYA 338 77 29 306,234

N4AF 004 75 28 220,729

K4ZW 28 69 18 132,936

NY3A 91 73 # 117,238

W3DF 47 71 6 116,886

K3ZO 38 70 15 113,815

K2PLF 53 60 14 100,196

N3UM 66 61 10 96,915

NR3X 25 62 9 76,893

K2UOP 33 58 8 72,138

N4GG 42 59 5 57,728

N3HUV 97 55 # 45,430

N3OC 64 54 6 45,120

W4EI	##	##	#	31,365
W8ZA	06	49	4	22,631
K1GG	02	53	#	22,366
WX3B	15	45	3	21,024
N3AM	00	46	2	19,488
W3GG	99	41	5	18,860

Single Op Low Power:

KT3Y	47	75	20	170,905
K3JT	00	66	5	72,278
K3SWZ	26	60	5	56,745
AI3M	84	54	#	38,232
N4ZR	87	53	3	32,648
W4YE	55	62	#	32,364
N4MM	40	64	#	31,680
W2YE	42	49	5	27,108
N3II	28	47	5	24,648
WB4MSG	14	##	#	22,204
K4EU	16	47	1	20,880
WJ9B	77	51	4	20,130
WK4Y	91	45	5	20,000
W2GG	86	46	5	19,686
K3SV	02	##	#	18,720
WK3H	00	43	1	17,415
W4TNX	65	##	#	14,364
K3WA	25	44	3	12,173
K3DSP	54	39	0	12,012
W3CP	24	41	#	10,168
NX9T	04	35	3	8,132
W4RIM	01	35	#	7,070
K2YWE	95	33	2	6,860

Multi-Op (single op plus packet unless listed below):

K3DI	02	72	13	157,165
N4CW	48	81	#	108,054
K3KO	21	71	9	102,000
W4NF	50	66	10	101,308
K1KO	54	44	5	15,974
W4TNX	65	38	4	14,364
K8OQL	37	40	2	11,760
W4HJ	76	31	4	4,124

Logs: 50 Club Score 2,849,163

Operators (non-PVRC):

K3DI: K2YWE K3DI

N4CW: N4CW KO7X
NR3X: N4YDU

ARRL 10 Mixed #4 1/6/2003

Call QSOs State DX Total

Single Op High Power - Mixed

K3ZO	2639	270	#	2,169,180
N4GG	2012	113	148	1,710,590
K4MA	1699	246	#	1,382,028
W0YR	1883	109	136	1,346,520
N3II	1442	110	145	1,145,970
K2PLF	1469	111	140	1,126,990
K2UOP	1432	244	#	1,044,320
WB4MSG	561	###	##	198,198
K3WA	206	21	52	59,568
W4HJ	127	49	21	31,640

Single Op Low Power - Mixed

N8II	1715	112	141	1,383,910
AI3M	945	236	#	715,552
NR3X	804	213	#	548,688
N4JED	517	165	#	250,800
W4TNX	364	55	82	171,798
W4TNX	364	##	##	171,798
K4UVT	237	43	76	102,102
W4ZYT	100	47	30	30,800
KZ1A	150	26	43	20,400
KE3Q	86	28	20	12,192
W3DQ	65	30	#	7,488

Single Op QRP - Mixed

K4CIA	329	164	#	173,512
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Single Op High Power - Phone

K3DNE	1323	55	70	333,750
KV3R	1191	55	74	307,278
W3UJ	149	19	43	18,476

Single Op Low Power - Phone

N4MM	562	155	#	174,220
W3ARS	654	52	65	153,036
W3LL	460	115	#	115,340
W4SD	205	154	#	63,140

N3FNE	296	38	58	56,832
KE4MIL	280	35	61	53,760
WA4BKW	202	27	48	30,300
KT3D	111	50	#	11,100
N8CH	212	51	#	10,812
N4DWK	103	19	18	7,622

Single Op QRP - Phone

NX9T	620	126	#	156,240
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Single Op High Power - CW

K7GM	2157	61	87	1,278,720
KD4D	2183	140	#	1,223,600
N4CW	1675	59	78	917,900
W3BP	1656	138	#	915,768
N3UM	1389	60	66	700,056
WF3J	1169	138	#	646,392
KT3Y	924	124	#	458,304
W3AZ	502	52	63	231,840
N4ZR	227	28	38	59,928
K8OQL	180	38	60	53,280
W8ZA	108	25	40	28,080
W3GG	148	8	31	23,088

Single Op Low Power - CW

W3PP	1495	62	89	904,188
NY3A	1356	137	#	744,184
WJ9B	1003	58	73	525,572
K3FT/4	1133	114	#	522,000
W3CB	894	58	58	414,816
K2YWE	546	48	64	245,056
K3JT	570	106	#	242,104
W3CP	433	113	#	196,168
W3DAD	422	44	52	162,432
NW4V	###	##	#	76,024
W4RIM	118	57	#	26,676
K3SWZ	144	44	#	24,768
K1SO	32	27	#	1,728

Multi-One

K1SE	2449	122	204	2,579,964
W4MYA	2757	314	#	2,572,288
K3DI	1695	103	180	1,360,098
N3OC	1465	101	167	1,236,552
N3AM	1216	83	161	1,055,544

N4MO	1353	229	#	1,007,142
K3KO	1163	94	152	1,003,168
WX3B	1695	243	#	920,484
W4WS	1541	88	124	749,208
K3DSP	575	81	103	329,728
W2GG	527	191	#	326,228
WK4Y	500	126	68	323,980
K3NCO	554	84	#	318,276
N3ZR	633	50	63	144,324
K3IXD	435	45	100	126,150
W3LRC	434	118	#	101,716
4U1WB	388	86	#	68,800
K3GV	277	41	64	58,170
W3HVQ	179	28	39	47,972

Dxpedition

VK4UH	292	100	#	101,400
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Logs 81 Score: 40,349,814

Note: Multi-One not listed below were SO Assisted

Multiop operators (non-PVRC):

K7GM at N4AF QTH

KD4D at N3HBX QTH

4U1WB: AJ3M

K1SE: K4EU K4ZW K1SE at K4ZW QTH

K3DI: W3ICM K3DI

K3DSP: K3DSP N3YUG

K3FT/4:K3FT at N6ZO QTH

K3NCO: W3IDT W3LJ (K3NCO)

N4MO: N4MO W4EI at W4EI QTH

NR3X: N4YDU

VK4UH: W3UL

W3LRC: K3HDM KT3D W3YD WI3N WK3X WV3D

W4WS: KG4NEP W2DZO (KG4CZU KG4UGZ)

WX3B: N3YIM N3SB W3ARS AK3Z WX3B
